Pairwise Spearman rho of t−statistics (Karpievitch et al. 2012)

Higher = methods rank proteins more similarly

Cancer_vs_Healthy

	vsn_knn	rlr_knn	cycloess_knn	vsn_RF	rlr_RF	cycloess_RF	vsn_bpca	rlr_bpca	cycloess_bpca	vsn_none	rlr_none	cycloess_none
vsn_knn	0.989	0.994	0.995	0.988	0.994	0.995	0.990	0.996	0.997	0.993	0.998	1.000
rlr_knn	0.991	0.996	0.994	0.990	0.995	0.994	0.991	0.997	0.996	0.994	1.000	0.998
cycloess_knn	0.995	0.989	0.988	0.995	0.990	0.990	0.997	0.993	0.991	1.000	0.994	0.993
vsn_RF	0.991	0.994	0.996	0.992	0.996	0.998	0.993	0.998	1.000	0.991	0.996	0.997
rlr_RF	0.993	0.997	0.996	0.994	0.998	0.997	0.995	1.000	0.998	0.993	0.997	0.996
cycloess_RF	0.997	0.990	0.989	0.998	0.993	0.993	1.000	0.995	0.993	0.997	0.991	0.990
vsn_bpca	0.991	0.994	0.996	0.994	0.998	1.000	0.993	0.997	0.998	0.990	0.994	0.995
rlr_bpca	0.992	0.996	0.995	0.995	1.000	0.998	0.993	0.998	0.996	0.990	0.995	0.994
cycloess_bpca	0.996	0.990	0.988	1.000	0.995	0.994	0.998	0.994	0.992	0.995	0.990	0.988
vsn_none	0.993	0.998	1.000	0.988	0.995	0.996	0.989	0.996	0.996	0.988	0.994	0.995
rlr_none	0.995	1.000	0.998	0.990	0.996	0.994	0.990	0.997	0.994	0.989	0.996	0.994
cycloess_none	1.000	0.995	0.993	0.996	0.992	0.991	0.997	0.993	0.991	0.995	0.991	0.989

Supplement_Interaction

	cycloess_none	rlr_none	vsn_none	cycloess_bpca	rlr_bpca	vsn_bpca	cycloess_RF	rlr_RF	vsn_RF	cycloess_knn	rlr_knn	vsn_knn
vsn_knn	0.930	0.928	0.964	0.928	0.933	0.969	0.949	0.950	0.984	0.964	0.963	1.000
rlr_knn	0.961	0.962	0.940	0.964	0.970	0.941	0.978	0.985	0.950	0.991	1.000	0.963
cycloess_knn	0.962	0.953	0.937	0.968	0.963	0.940	0.984	0.977	0.949	1.000	0.991	0.964
vsn_RF	0.944	0.942	0.977	0.941	0.946	0.984	0.963	0.963	1.000	0.949	0.950	0.984
rlr_RF	0.974	0.976	0.952	0.975	0.982	0.952	0.992	1.000	0.963	0.977	0.985	0.950
cycloess_RF	0.975	0.966	0.948	0.981	0.976	0.953	1.000	0.992	0.963	0.984	0.978	0.949
vsn_bpca	0.939	0.938	0.970	0.963	0.967	1.000	0.953	0.952	0.984	0.940	0.941	0.969
rlr_bpca	0.965	0.968	0.943	0.994	1.000	0.967	0.976	0.982	0.946	0.963	0.970	0.933
cycloess_bpca	0.965	0.957	0.936	1.000	0.994	0.963	0.981	0.975	0.941	0.968	0.964	0.928
vsn_none	0.971	0.972	1.000	0.936	0.943	0.970	0.948	0.952	0.977	0.937	0.940	0.964
rlr_none	0.994	1.000	0.972	0.957	0.968	0.938	0.966	0.976	0.942	0.953	0.962	0.928
cycloess_none	1.000	0.994	0.971	0.965	0.965	0.939	0.975	0.974	0.944	0.962	0.961	0.930

Training_CR

	cycloess_none	rlr_none	vsn_none	cycloess_bpca	rlr_bpca	vsn_bpca	cycloess_RF	rlr_RF	vsn_RF	cycloess_knn	rlr_knn	vsn_knn
vsn_knn	0.967	0.972	0.979	0.975	0.979	0.983	0.982	0.986	0.991	0.990	0.992	1.000
rlr_knn	0.975	0.980	0.973	0.981	0.984	0.975	0.986	0.991	0.984	0.995	1.000	0.992
cycloess_knn	0.978	0.977	0.970	0.983	0.980	0.971	0.989	0.988	0.981	1.000	0.995	0.990
vsn_RF	0.975	0.979	0.987	0.984	0.986	0.992	0.992	0.994	1.000	0.981	0.984	0.991
rlr_RF	0.983	0.987	0.982	0.990	0.993	0.986	0.996	1.000	0.994	0.988	0.991	0.986
cycloess_RF	0.986	0.984	0.979	0.992	0.988	0.982	1.000	0.996	0.992	0.989	0.986	0.982
vsn_bpca	0.967	0.972	0.981	0.990	0.993	1.000	0.982	0.986	0.992	0.971	0.975	0.983
rlr_bpca	0.977	0.982	0.977	0.997	1.000	0.993	0.988	0.993	0.986	0.980	0.984	0.979
cycloess_bpca	0.981	0.980	0.974	1.000	0.997	0.990	0.992	0.990	0.984	0.983	0.981	0.975
vsn_none	0.988	0.991	1.000	0.974	0.977	0.981	0.979	0.982	0.987	0.970	0.973	0.979
rlr_none	0.997	1.000	0.991	0.980	0.982	0.972	0.984	0.987	0.979	0.977	0.980	0.972
cycloess_none	1.000	0.997	0.988	0.981	0.977	0.967	0.986	0.983	0.975	0.978	0.975	0.967

Spearman rho

1.00

0.98

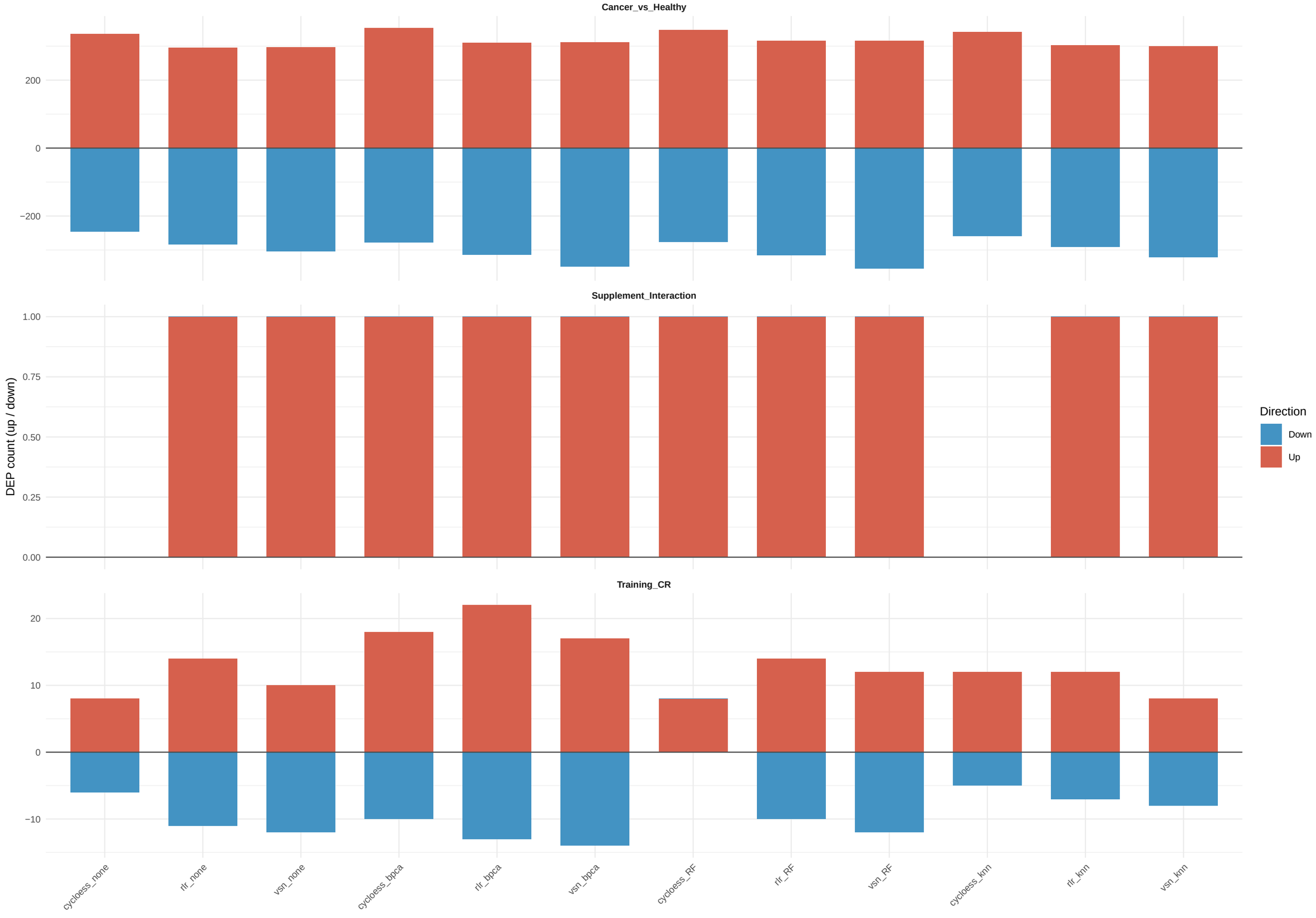
0.96

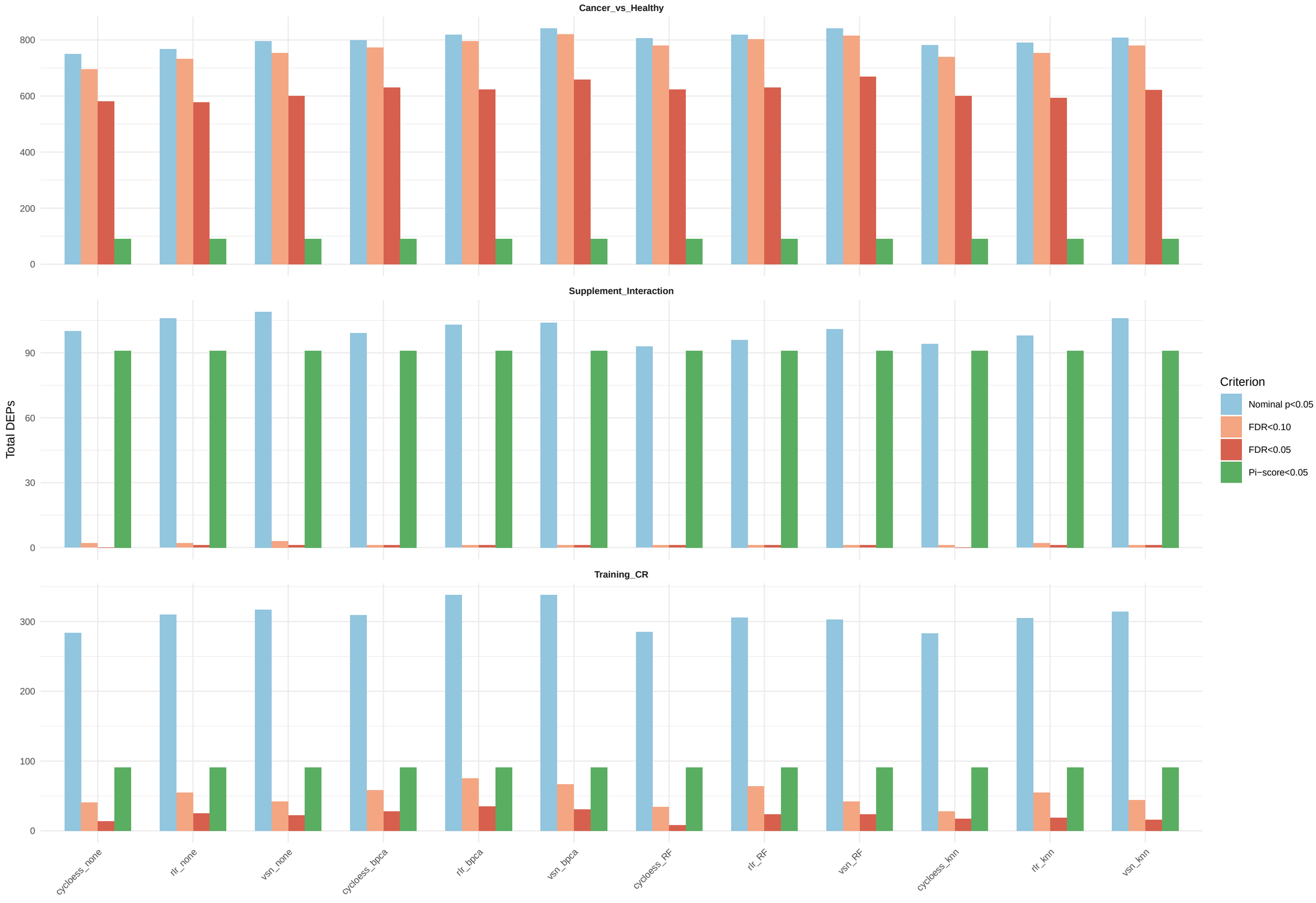
0.94

Concordance At the Top (CAT) − each method vs consensus ranking

Irizarry et al. (2005) | Dashed line = 0.70 concordance

DEP counts per method per contrast (FDR < 0.05)



DEP counts across significance criteria

Pi−score = −log10(p) x |logFC| (Xiao et al. 2014); empirical p−value < 0.05